APPENDIX A

check_purge.sh

```
prog=`basename $0`

if test $# -lt 1
then
        echo "Need dbname" >>/opt/BulkStats/etc/$prog.log
        exit 1
fi

if test -s /opt/BulkStats/etc/$prog.log
then
        dte=`date +%d%b%Y`
        mv -f /opt/BulkStats/etc/$prog.log \
                /opt2/BulkStats.var/$prog.log@$dte
        compress -f /opt2/BulkStats.var/$prog.log@$dte
fi

DBNAME=NAVIS-STATN
export prog DBNAME

if ping -I 1 navis-statn 24 1|grep "0 packets received"
then
        echo "navis-statn not responding at `date`" \
                >>/opt/BulkStats/etc/$prog.log 2>&1
        rm -f /BulkStats/data/NXStatisticsCbxGbx.purging
        exit 1
fi

###################################
# lock out other db type cron jobs !
###################################
touch /BulkStats/data/NXStatisticsCbxGbx.purging

#########################################################
# this is a routine to check for an empty db log, if not
# sleep up to 10 minutes waiting for one
#########################################################
check_db ()
{
        #############################################################
        # loop up to 12 times, i.e. 6 minutes, until the logfile is
        # close to 100% free
        #############################################################

        cnt=12
        while true
        do
                remsh $DBNAME -l sybase -e /opt/sybase/query >/tmp/$prog.$$ 2>&1 <<!
sp_helpdb $1
go
quit
exit
!
                LogSize=`cat /tmp/$prog.$$ | grep _log | awk '{print $2,$6}'`
                rm -f /tmp/$prog.$$
```

```
            Size=`echo $LogSize | awk '{print $1}' | cut -f1 -d'.'`
            Free=`echo $LogSize | awk '{print $2}'`

            Size=`expr $Size \* 1024000`
            Free=`expr $Free \* 100000`

            WFree=`expr $Free \/ $Size`
            RFree=`expr $Free \% $Size`
            RFree=`echo $RFree | cut -c1-2`

            echo "$1 has $WFree.$RFree free logspace at `date`" \
                    >>/opt/BulkStats/etc/$prog.log 2>&1

            if test $WFree -gt 85
            then
                    echo >>/opt/BulkStats/etc/$prog.log 2>&1
                    break
            else
                    sleep 30
            fi

            cnt=`expr $cnt - 1`
            if test $cnt -lt 0
            then
                    echo "$prog: aborting because of full db log for $1" \
                            >>/opt/BulkStats/etc/$prog.log 2>&1
            fi
      done
}

export MinTime MaxTime
echo "$prog:\tStarting at `date`\n" >>/opt/BulkStats/etc/$prog.log

check_db "$1"

for x in TrkStat CktStat TrunkStat FrCktStat FrLportStat ATMCktStat ATMPrtStat \
      ATMSvcStat ATMTrkStat ATMLPrtNiStat ATMLPrtTrkStat ATMFirstTrkStat \
      ATMOptTrkStat IpLportStat SmdsLportStat
do

      MinTime=`remsh $DBNAME -l sybase -e /opt/sybase/query <<!
use $1
go
select min(startTime) from $x
go
quit
exit
!`
            if echo $MinTime | egrep "NULL|Msg" >/dev/null
            then
                    echo "No table data for $x\n" >>/opt/BulkStats/etc/$prog.log
                    continue
            fi

            MinTime=`echo $MinTime | awk '{print $2}'`
            echo "$x:\tMinTime <$MinTime>" >>/opt/BulkStats/etc/$prog.log

            if test $MinTime -le 950000000
            then
```

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```
                echo "$x:\tbad number for MinTime" \
                        >>/opt/BulkStats/etc/$prog.log
        continue
fi

MaxTime=`/BulkStats/bin/perl5 -e '$utcseconds=time();print "$utcseconds\n"'`
echo "$x:\tMaxTime <$MaxTime>" >>/opt/BulkStats/etc/$prog.log

if test $MaxTime -le 950000000
then
        echo "$x:\tbad number for MaxTime" \
                >>/opt/BulkStats/etc/$prog.log
        continue
fi

DiffTime=`expr $MaxTime - $MinTime`
DiffTime=`expr $DiffTime / 86400`

echo "$x:\tnumber of days in database is $DiffTime\n" \
        >>/opt/BulkStats/etc/$prog.log

#######################################
# delete all records older than 30 days
#######################################
if test $DiffTime -gt 31
then
        Ttime=`expr $DiffTime - 31`
        DelTime=0
        export DelTime

        while true
        do
                if test $Ttime -eq 0
                then
                        break
                fi

                DelTime=`expr "$MinTime" + 86400`
                MinTime=`expr "$MinTime" + 86400`
                export DelTime MinTime

                echo "$x:\tDelTime <$DelTime>" \
                        >>/opt/BulkStats/etc/$prog.log
                echo "$x:\tdelete $x where startTime < $DelTime at `date`\n" \
                        >>/opt/BulkStats/etc/$prog.log

                #############################################
                # execute the 'query' file on remote server so
                # passwd is not exposed !
                #############################################
                remsh $DBNAME -l sybase -e /opt/sybase/query \
                        >>/opt/BulkStats/etc/$prog.log 2>&1 <<!
use $1
go
delete $x where startTime < $DelTime
go
checkpoint
go
quit
```

```
exit
!
                        DiffTime=`expr $DiffTime - 1`
                        echo "\nSx:\tnumber of days left in database is $DiffTime" \
                                >>/opt/BulkStats/etc/$prog.log

                        Ttime=`expr $Ttime - 1`

                        echo >>/opt/BulkStats/etc/$prog.log
                        check_db "$1"
                done
        fi
done

rm -f /BulkStats/data/NXStatisticsCbxGbx.purging
echo "$prog:\tEnding at `date`\n" >>/opt/BulkStats/etc/$prog.log
```

APPENDIX B

check_stats.sh

```
prog=`basename $0`

if test $# -lt 1
then
        echo "Need dbname" >>/opt/BulkStats/etc/$prog.log
        exit 1
fi

>/opt/BulkStats/etc/$prog.log

##if test -s /opt/BulkStats/etc/$prog.log
##then
        ##mv -f /opt/BulkStats/etc/$prog.log \
                ##/opt/BulkStats/etc/$prog.log.old
##fi

DBNAME=NAVIS-STATN
export prog DBNAME
echo >>/opt/BulkStats/etc/$prog.log

for x in TrkStat CktStat TrunkStat FrCktStat FrLportStat ATMCktStat ATMPrtStat \
        ATMSvcStat ATMTrkStat ATMLPrtNiStat ATMLPrtTrkStat ATMFirstTrkStat \
        ATMOptTrkStat IpLportStat SmdsLportStat
do

        echo "Starting update statistics $x at `date`" >>/opt/BulkStats/etc/$prog.log
        remsh $DBNAME -l sybase -e /opt/sybase/query \
                >>/opt/BulkStats/etc/$prog.log 2>&1 <<!
use $1
go
update statistics $x
go
quit
exit
!
        echo "Ending update statistics $x at `date`\n" \
                >>/opt/BulkStats/etc/$prog.log

done

echo "$prog:\tEnding at `date`\n" >>/opt/BulkStats/etc/$prog.log
```